

ABSTRACT

Utilizing PET resin which has improved fluidity and enabling injection molding with co-polymerization and compound technology, the hinge being the thinnest part of thickness more than 0.2 mm, the main body and the lid made with one solid mold method, which is a container that can be opened and closed and sealed, and is transparent, to be used as medical usage container and in physics and chemistry experiments. Sheet can be sealed in the inside of the container, sealed completely in a bag and sterilized with radiation. The slide glass has the hollow round part on the surface made and molded simultaneously, having a lid which can closed and sealed via a hinge made with one solid mold method. Also the slide glass is made as sterilized. The spectacle is made with one solid mold method wherein the lens, lens frame, and the side frames are all made as one mold from PET resin. The temperature setting of the cylinder of the injection molding machine is set at 240 to 285 degrees centigrade, and the speed of the injection mold is set at low to middle speed. Window glass, light shade, tableware, roof tile, helmets and such are made as one with solid mold method with the PET resin. From above, this invention provides medical apparatus with lids, disposable physics and chemistry experiment tools with lids, sterilized slide glass with hollow part with lid, solid molded spectacle, window glass with convex concave patterns and designs with window frame and locks, light shades, tableware, roof tiles, helmets and such, all made from PET resin which has improved features of higher flexibility, high transparency, radiation proof, and high shockproof property, being suitable for mass production at affordable cost.